

HYS-38CIP sequence listing
SEQUENCE LISTING

<110> Dedera, Douglas

Yamazaki, Victoria

Asundi, Vinod

Liu, Chenghua

Tang, Y. Tom

Drmanac, Radoje T.

<120> Methods of Therapy and Diagnosis Using Insulin-like Growth Factor Binding Protein-like Polypeptides and Polynucleotides

<130> HYS-38CIP

<140> Not Yet Assigned

<141> 2002-02-27

<150> 09/784,748

<151> 2001-02-14

<150> 09/649,167

<151> 2000-08-23

<150> 09/540,217

<151> 2000-03-31

<160> 14

<170> PatentIn version 3.1

<210> 1

<211> 375

HYS-38CIP sequence listing

<212> DNA

<213> Homo sapiens

<400> 1

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tcaccggggc gcaggtgggc ctgtcctgtg aagtgagggc tgtgcctacc ccagtcacga     180
cgtggagaaa ggtcacgaag tcccctgagg gcacccaagc actggaggag ctgcctgggg     240
accatgtcaa tatagctgtc caagtgcgag ggggcccttc tgaccatgag gccacggcct     300
ggattttgat caaccccctg cgaaaggagg atgagggtgt gtaccagtgc catgcagcca     360
acatggtggg agagg                                           375
    
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<210> 2

<211> 473

<212> DNA

<213> Homo sapiens

<400> 2

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gtaaatacag gagctttcac ttcccagctc ccgatgaccg catgtgatgg agaaatgtac     120
atgttctaag tcattttcag tattttacac ccatgttacg agatatttga ggtggcttat     180
aagacctgta gaaaaaagaa gaaaaatacg taaatggagg aaaccaggga aagagcaaaa     240
gaagagtagg gacatactta gatgagcagt agaatccctg gtatattctg cacacatctc     300
cctctgagct tcttagcatg caaagacaag agctgtgaac atgaagggtgt gtccatgaga     360
tgaaaagacc agttgtgttt tggggctgga ggggaatattt cctctgtatt cttttagaaa     420
gagcactgag agaggttagca gacagtgtca ttgtgacagc gtccatgtga aaa             473
    
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<210> 3

<211> 375

<212> DNA

<213> Homo sapiens

<400> 3

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cgctgcgctt gcgcgctcgg cacacgcccc gcgcgcaccc cggtcacctg cacaaggcgc      60
    
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HYS-38CIP sequence listing

gcgacggccc ttgcgagttc gctcctgtgg tcgtcgttcc tccccgaagt gttcacaacg	120
tcaccggggc gcaggtgggc ctgtcctgtg aagtgagggc tgtgcctacc ccagtcatca	180
cgtggagaaa ggtcacgaag tcccctgagg gcacccaagc actggaggag ctgcctgggg	240
accatgtcaa tatagctgtc caagtgcgag ggggcccttc tgaccatgag gccacggcct	300
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acatggtggg agagg	375

<210> 4
 <211> 1250
 <212> DNA
 <213> Homo sapiens

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ctgtcccgga gcaagccatg ccgcgcttgt ctctgtcttt gccgtgctg cttctgtctg	120
tgctgccgct gctgccgccg ctgtccccga gccttgggat ccgcgacgtg ggcggtcggc	180
gccccaaagt tggctcgtgc cggccagagg gctgcccggc gcctgcgccc tgcccggcgc	240
ccgggatctc ggcgctcgac gagtgcggct gctgcgcccg ctgcctggga gccgagggcg	300
cgagctgcgg gggccgcgcc ggcgggcgct gtggccccgg cctggtatgc gcgagccagg	360
ccgctggggc agcgcgcgag ggcaccgggc tctgcgtgtg cgcgcagcgc ggcaccgtct	420
gcggctccga cggctcgtcg taccacagcg tctgcgcgct gcgcctgcgc gctcggcaca	480
cgccccgcgc gcaccccggc cacctgcaca aggcgcgcga cggcccttgc gagttcgttc	540
ctatcactcg tttttataac tgctttcctc agccgttaat tcacaggcaa ttctctttgt	600
ctccagacag gagacagagt gagaccctgt ctaaaaagaa gaagaagaag gaggaggagg	660
aggaggagga ggaggagggg gaggaggaga aggaagaaga aggatgcaaa agcaatttcc	720
aacacaccat taactttaaa gaaatctcag agggatttgg gaagattttt tcattccagc	780
catcaatgat cgatataatt gacgaggcct ctacactgca cgttgcccaa cagctgttg	840
tgctggatgc cagggtggct gagttgctgt ccaatgcagc tcctgtggtc gtcgttcctc	900
cccgaagtgt tcacaacgtc accggggcgc aggtgggcct gtcctgtgaa gtgagggctg	960
tgctacccc agtcatcacg tggagaaagg tcacgaagtc ccctgagggc acccaagcac	1020
tggaggagct gcctggggac catgtcaata tagctgtcca agtgcgaggg ggcccttctg	1080
accatgaggg cagggcctgg attttggtgt cagacctgca tcattgtctg aaggctctcc	1140
ccacctactc ctactccagc accctttctc cttcacaggt gtttctccta atacatctct	1200

tgacattgg accctatcct ggtgcctgca tcttggaggc cccaccctag 1250

<213> Homo sapiens

<223>

agc gtc tgc gcg ctg cgc ctg cgc gct cgg cac acg ccc cgc gcg cac
 Ser Val Cys Ala Leu Arg Leu Arg Ala Arg His Thr Pro Arg Ala His 495
 125 130 135

HYS-38CIP sequence listing

ccc ggt cac ctg cac aag gcg cgc gac ggc cct tgc gag ttc gct cct	543
Pro Gly His Leu His Lys Ala Arg Asp Gly Pro Cys Glu Phe Ala Pro	
140 145 150 155	
gtg gtc gtc gtt cct ccc cga agt gtt cac aac gtc acc ggg gcg cag	591
Val Val Val Val Pro Pro Arg Ser Val His Asn Val Thr Gly Ala Gln	
160 165 170	
gtg ggc ctg tcc tgt gaa gtg agg gct gtg cct acc cca gtc atc acg	639
Val Gly Leu Ser Cys Glu Val Arg Ala Val Pro Thr Pro Val Ile Thr	
175 180 185	
tgg aga aag gtc acg aag tcc cct gag ggc acc caa gca ctg gag gag	687
Trp Arg Lys Val Thr Lys Ser Pro Glu Gly Thr Gln Ala Leu Glu Glu	
190 195 200	
ctg cct ggg gac cat gtc aat ata gct gtc caa gtg cga ggg ggc cct	735
Leu Pro Gly Asp His Val Asn Ile Ala Val Gln Val Arg Gly Gly Pro	
205 210 215	
tct gac cat gag gcc acg gcc tgg att ttg atc aac ccc ctg cga aag	783
Ser Asp His Glu Ala Thr Ala Trp Ile Leu Ile Asn Pro Leu Arg Lys	
220 225 230 235	
gag gat gag ggt gtg tac cag tgc cat gca gcc aac atg gtg gga gag	831
Glu Asp Glu Gly Val Tyr Gln Cys His Ala Ala Asn Met Val Gly Glu	
240 245 250	
gct gag tcc cac agc aca gtg acg gtt cta gat ctg agt aaa tac agg	879
Ala Glu Ser His Ser Thr Val Thr Val Leu Asp Leu Ser Lys Tyr Arg	
255 260 265	
agc ttc cac ttc cca gct ccc gat gac cgc atg tga tggagaaatg	925
Ser Phe His Phe Pro Ala Pro Asp Asp Arg Met	
270 275	
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tataagacct gtaaaaaaaaa aaaa	1009

<210> 6
 <211> 278
 <212> PRT
 <213> Homo sapiens

<400> 6

Met Pro Arg Leu Ser Leu Leu Leu Pro Leu Leu Leu Leu Leu Leu	
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Pro Leu Leu Pro Pro Leu Ser Pro Ser Leu Gly Ile Arg Asp Val Gly	
20 25 30	
Gly Arg Arg Pro Lys Cys Gly Pro Cys Arg Pro Glu Gly Cys Pro Ala	
35 40 45	

HYS-38CIP sequence listing

Pro Ala Pro Cys Pro Ala Pro Gly Ile Ser Ala Leu Asp Glu Cys Gly
50 55 60

Cys Cys Ala Arg Cys Leu Gly Ala Glu Gly Ala Ser Cys Gly Gly Arg
65 70 75 80

Ala Gly Gly Arg Cys Gly Pro Gly Leu Val Cys Ala Ser Gln Ala Ala
85 90 95

Gly Ala Ala Pro Glu Gly Thr Gly Leu Cys Val Cys Ala Gln Arg Gly
100 105 110

Thr Val Cys Gly Ser Asp Gly Arg Ser Tyr Pro Ser Val Cys Ala Leu
115 120 125

Arg Leu Arg Ala Arg His Thr Pro Arg Ala His Pro Gly His Leu His
130 135 140

Lys Ala Arg Asp Gly Pro Cys Glu Phe Ala Pro Val Val Val Val Pro
145 150 155 160

Pro Arg Ser Val His Asn Val Thr Gly Ala Gln Val Gly Leu Ser Cys
165 170 175

Glu Val Arg Ala Val Pro Thr Pro Val Ile Thr Trp Arg Lys Val Thr
180 185 190

Lys Ser Pro Glu Gly Thr Gln Ala Leu Glu Glu Leu Pro Gly Asp His
195 200 205

Val Asn Ile Ala Val Gln Val Arg Gly Gly Pro Ser Asp His Glu Ala
210 215 220

Thr Ala Trp Ile Leu Ile Asn Pro Leu Arg Lys Glu Asp Glu Gly Val
225 230 235 240

Tyr Gln Cys His Ala Ala Asn Met Val Gly Glu Ala Glu Ser His Ser
245 250 255

Thr Val Thr Val Leu Asp Leu Ser Lys Tyr Arg Ser Phe His Phe Pro
260 265 270

Ala Pro Asp Asp Arg Met
275

<210> 7

HYS-38CIP sequence listing

<211> 837

<212> DNA

<213> Homo sapiens

<400> 7

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tgccggccag agggctgccc ggcgcctgcg ccctgcccgg cgcccgggat ctggcgctc      180
gacgagtgcg gctgctgcgc ccgctgcctg ggagccgagg gcgcgagctg cgggggcccgc      240
gccggcgggc gctgtggccc cggcctggta tgcgcgagcc aggccgctgg ggcagcgcgc      300
gagggcaccg ggctctgcgt gtgcgcgcag cgcggcaccg tctgcggctc cgacggtcgc      360
tcgtacccca gcgtctgcgc gctgcgcctg cgcgctcggc acacgccccg cgcgcacccc      420
ggtcacctgc acaaggcgcg cgacggccct tgcgagttcg ctctgtggt cgtcgttcct      480
ccccgaagtg ttcacaacgt caccggggcg caggtgggcc tgcctgtga agtgagggct      540
gtgcctaccc cagtcatac gtggagaaag gtcacgaagt cccctgaggg cacccaagca      600
ctggaggagc tgcctgggga ccatgtcaat atagctgtcc aagtgcgagg gggcccttct      660
gaccatgagg ccacggcctg gattttgatc aaccccctgc gaaaggagga tgagggtgtg      720
taccagtgcc atgcagccaa catggtggga gaggtgagt cccacagcac agtgacggtt      780
ctagatctga gtaaatacag gagcttccac ttcccagctc ccgatgaccg catgtga      837
  
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<210> 8

<211> 16

<212> PRT

<213> Homo sapiens

<400> 8

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Asp Glu Cys Gly Cys Cys Ala Arg Cys Leu Gly Ala Glu Gly Ala Ser
1          5          10          15
  
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<210> 9

<211> 27

<212> PRT

<213> Homo sapiens

[illegible]

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~~1 5 10 15~~

$\langle 210 \rangle$ 10

<212> PRT

<213> Homo sapiens

Ile Arg Asp Val Gly Gly Arg Arg Pro Lys Cys Gly Pro Cys Arg Pro
1 5 10 15

Glu Gly Cys Pro Ala Pro Ala Pro Cys Pro Ala Pro Gly Ile Ser Ala
20 25 30

Leu Asp Glu Cys Gly Cys Cys Ala Arg Cys Leu Gly Ala Glu Gly Ala

Ser Cys Gly Gly Arg Ala Gly Gly Arg Cys Gly Pro Gly Leu Val Cys
50 55 60

Ala Ser Gln Ala Ala Gly Ala Ala Pro Glu Gly Thr Gly Leu Cys Val
65 70 75 80

Cys Ala Gln Arg Gly Thr Val Cys Gly Ser Asp Gly Arg Ser Tyr Pro
85 90 95

Ser Val Cys Ala Leu Arg Leu Arg Ala Arg His Thr Pro Arg Ala His
100 105 110

Pro Gly His Leu His Lys Ala Arg Asp Gly Pro Cys Glu Phe Ala Pro
115 120 125

Val Val Val Val Pro Pro Arg Ser Val His Asn Val Thr Gly Ala Gln
130 135 140

Val Gly Leu Ser Cys Glu Val Arg Ala Val Pro Thr Pro Val Ile Thr
145 150 155 160

(The page contains musical notation for a piano piece, likely from a manuscript or score.)

Leu Pro Gly Asp His Val Asn Ile Ala Val Gln Val Arg Gly Gly Pro
180 185 190

Glu Asp Glu Gly Val Tyr Gln Cys His Ala Ala Asn Met Val Gly Glu
210 215 220

Ser Phe His Phe Pro Ala Pro Asp Asp Arg Met
245 250

<213> Homo sapiens

Ala Arg Asp Gly Pro Cys Glu Phe Ala Pro Val Val Val Val Pro Pro
1 5 10 15

Val Arg Ala Val Pro Thr Pro Val Ile Thr Trp Arg Lys Val Thr Lys
35 40 45

Asn Ile Ala Val Gln Val Arg Gly Gly Pro Ser Asp His Glu Ala Thr
65 70 75 80

Gln Cys His Ala Ala Asn Met
100

HYS-38CIP sequence listing

<210> 12

<211> 390

<212> PRT

<213> Homo sapiens

<400> 12

Met Pro Arg Leu Ser Leu Leu Leu Pro Leu Leu Leu Leu Leu Leu Leu
1 5 10 15

Pro Leu Leu Pro Pro Leu Ser Pro Ser Leu Gly Ile Arg Asp Val Gly
20 25 30

Gly Arg Arg Pro Lys Cys Gly Pro Cys Arg Pro Glu Gly Cys Pro Ala
35 40 45

Pro Ala Pro Cys Pro Ala Pro Gly Ile Ser Ala Leu Asp Glu Cys Gly
50 55 60

Cys Cys Ala Arg Cys Leu Gly Ala Glu Gly Ala Ser Cys Gly Gly Arg
65 70 75 80

Ala Gly Gly Arg Cys Gly Pro Gly Leu Val Cys Ala Ser Gln Ala Ala
85 90 95

Gly Ala Ala Pro Glu Gly Thr Gly Leu Cys Val Cys Ala Gln Arg Gly
100 105 110

Thr Val Cys Gly Ser Asp Gly Arg Ser Tyr Pro Ser Val Cys Ala Leu
115 120 125

Arg Leu Arg Ala Arg His Thr Pro Arg Ala His Pro Gly His Leu His
130 135 140

Lys Ala Arg Asp Gly Pro Cys Glu Phe Val Pro Ile Thr Arg Phe Tyr
145 150 155 160

Asn Cys Phe Pro Gln Pro Leu Ile His Arg Gln Phe Ser Leu Ser Pro
165 170 175

Asp Arg Arg Gln Ser Glu Thr Leu Ser Lys Lys Lys Lys Lys Lys Glu
180 185 190

Glu Glu Glu Glu Glu Glu Glu Glu Gly Glu Glu Glu Lys Glu Glu Glu
Page 10

Met Pro Arg Leu Pro Leu Leu Leu Leu Leu Leu Leu Pro Ser Leu Ala Arg
1 5 10 15

Cys Gln Gln Asp Arg Cys Pro Ala Pro Ser Pro Cys Pro Ala Pro Trp
35 40 45

Ile Ser Ala Arg Asp Glu Cys Gly Cys Cys Ala Arg Cys Leu Gly Ala
50 55 60

Glu Gly Ala Ser Cys Gly Gly Pro Val Gly Ser Arg Cys Gly Pro Gly
65 70 75 80

Leu Val Cys Ala Ser Arg Ala Ser Gly Thr Ala Pro Glu Gly Thr Gly
85 90 95

Leu Cys Val Cys Ala Gln Arg Gly Ala Val Cys Gly Ser Asp Gly Arg
100 105 110

Ser Tyr Ser Ser Ile Cys Ala Leu Arg Leu Arg Ala Arg His Ala Pro
115 120 125

Arg Ala His His Gly His Leu His Lys Ala Arg Asp Gly Pro Cys Glu
130 135 140

Phe Ala Pro Val Val Leu Met Pro Pro Arg Asp Ile His Asn Val Thr
145 150 155 160

Gly Thr Gln Val Phe Leu Ser Cys Glu Val Lys Ala Val Pro Thr Pro
165 170 175

Val Ile Thr Trp Lys Lys Val Lys His Ser Pro Glu Gly Thr Glu Gly
180 185 190

Leu Glu Glu Leu Pro Gly Asp His Val Asn Ile Ala Val Gln Val Arg
195 200 205

Gly Gly Pro Ser Asp His Glu Thr Thr Ser Trp Ile Leu Ile Asn Pro
210 215 220

Leu Arg Lys Glu Asp Glu Gly Val Tyr His Cys His Ala Ala Asn Ala
225 230 235 240

Ile Gly Glu Ala Gln Ser His Gly Thr Val Thr Val Leu Asp Leu Asn
245 250 255

HYS-38CIP sequence listing

Arg Tyr Lys Ser Leu Tyr Ser Ser Val Pro Gly Asp
260 265

<210> 14

<211> 264

<212> PRT

<213> Homo sapiens

<400> 14

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20 25 30

Glu Pro Ala Ser Cys Pro Pro Leu Pro Pro Leu Gly Cys Leu Leu Gly
35 40 45

Glu Thr Arg Asp Ala Cys Gly Cys Cys Pro Met Cys Ala Arg Gly Glu
50 55 60

Gly Glu Pro Cys Gly Gly Gly Gly Ala Gly Arg Gly Tyr Cys Ala Pro
65 70 75 80

Gly Met Glu Cys Val Lys Ser Arg Lys Arg Arg Lys Gly Lys Ala Gly
85 90 95

Ala Ala Ala Gly Gly Pro Gly Val Ser Gly Val Cys Val Cys Lys Ser
100 105 110

Arg Tyr Pro Val Cys Gly Ser Asp Gly Thr Thr Tyr Pro Ser Gly Cys
115 120 125

Gln Leu Arg Ala Ala Ser Gln Arg Ala Glu Ser Arg Gly Glu Lys Ala
130 135 140

Ile Thr Gln Val Ser Lys Gly Thr Cys Glu Gln Gly Pro Ser Ile Val
145 150 155 160

Thr Pro Pro Lys Asp Ile Trp Asn Val Thr Gly Ala Gln Val Tyr Leu
165 170 175

Ser Cys Glu Val Ile Gly Ile Pro Thr Pro Val Leu Ile Trp Asn Lys
180 185 190

HYS-38CIP sequence listing

Val Lys Arg Gly His Tyr Gly Val Gln Arg Thr Glu Leu Leu Pro Gly
 195 200 205

Asp Arg Asp Asn Leu Ala Ile Gln Thr Arg Gly Gly Pro Glu Lys His
 210 215 220

Glu Val Thr Gly Trp Val Leu Val Ser Pro Leu Ser Lys Glu Asp Ala
 225 230 235 240

Gly Glu Tyr Glu Cys His Ala Ser Asn Phe Gln Gly Gln Ala Ser Ala
 245 250 255

Ser Ala Lys Ile Thr Val Val Asp
 260